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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/749,948	12/31/2003	Stephen John Carlson	M01A226	8577	
75	90 09/29/2005		EXAMINER		
The BOC Group, Inc.			SORKIN, DAVID L		
Legal Services-	Intellectual Property		c		
575 Mountain Ave.			ART UNIT	PAPER NUMBER	
Murray Hill, NJ 07974			1723		
			DATE MAILED: 09/29/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary						
		10/749,948	CARLSON ET AL.			
	· · · · · · · · · · · · · · · · · · ·	Examiner	Art Unit			
	The MAN INC DATE of this communication and	David L. Sorkin	1723			
۔۔ Period for ا	The MAILING DATE of this communication app Reply	bears on the cover sneet with the C	orrespondence address			
WHICH - Extension after SIX - If NO pe - Failure to	RTENED STATUTORY PERIOD FOR REPLY EVER IS LONGER, FROM THE MAILING Do ons of time may be available under the provisions of 37 CFR 1.1 (6) MONTHS from the mailing date of this communication. oried for reply is specified above, the maximum statutory period or oreply within the set or extended period for reply will, by statute y received by the Office later than three months after the mailing obstent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communic () (35 U.S.C. § 133).			
Status			•			
2a)∐ T 3)∐ S	esponsive to communication(s) filed on <u>30 Ju</u> his action is <b>FINAL</b> . 2b) This ince this application is in condition for allowald osed in accordance with the practice under E	s action is non-final.  nce except for formal matters, pro		ts is		
Dispositior	n of Claims					
4a 5)⊠ C 6)⊠ C 7)⊠ C 8)□ C  Application 9)□ Th 10)□ Th A	laim(s) 1-22 is/are pending in the application  1) Of the above claim(s) is/are withdraw  Ilaim(s) 7,8,10-13,18 and 20-22 is/are allowed  Ilaim(s) 1-6 and 15-17 is/are rejected.  Ilaim(s) 9 and 14 is/are objected to.  Ilaim(s) are subject to restriction and/or  In Papers  In e specification is objected to by the Examine  In the drawing(s) filed on is/are: a) accomplicant may not request that any objection to the  Interpolation of the specification is objected to by the Examine  Interpolation of the specification of the specification is objected to by the Examine  Interpolation of the specification of the specification is objected to by the Examine  Interpolation of the specification is objected to by the Examine  Interpolation of the specification of the specification is objected to by the Examine  Interpolation of the specification of the specification is objected to by the Examine  Interpolation of the specification of the specification is objected to by the Examine  Interpolation of the specification of the specification is objected to by the Examine  Interpolation of the specification of the specification is objected to by the Examine  Interpolation of the specification of the specification is objected to by the Examine  Interpolation of the specification of the spec	wn from consideration.  d.  r election requirement.  er.  epted or b) objected to by the l drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.1	• •		
Priority un	der 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s	)					
1) Notice of 2) Notice of 3) Notice of	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) o(s)/Mail Date 31 December 2003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:				

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Application/Control Number: 10/749,948 Page 2

Art Unit: 1723

### **DETAILED ACTION**

#### Claim Objections

- 1. Claim 9 should end with only one period.
- 2. Claim 14 should end with a period.

#### Claim Rejections - 35 USC § 112

3. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is lack of antecedent basis for "the first valve" and for "the second valve". Claim 4 depends from claim 1 which does not require any valve. It is unclear what required by claim 4.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rushmore (US 1,647,473). Regarding claim 1, Rushmore ('473) disclose an apparatus comprising a first vessel (11); a second vessel (10); an aspirator (20) that produces reduced pressure in the second vessel as a first fluid flows through the aspirator to the first vessel; a fluid inlet (13 or 16) in the second vessel that allows a second fluid to enter the second vessel; and a fluid conduit (18) connecting the first vessel and the second vessel. Rushmore ('473) recognizes the importance of determining the amount

Application/Control Number: 10/749,948

Art Unit: 1723

of material in the vessels on page 1, lines 88-89, which would have suggested level sensors for the vessels to one of ordinary skill in the art. Regarding claim 2, a first valve (19) controls flow through the conduit. Regarding claim 3, a "second" (note: claim 3 only requires one valve) valve (15) controls flow of the second fluid. Regarding claim 4, as seen in the drawing, knobs to control the valves are disclosed. Regarding claims 5, each vessel has an exhaust conduit and valve (41). Regarding claim 6, each vessel has a gas supply conduit and valve (15, 23).

Page 3

- 6. Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rushmore ('473) in view of Parker ('621). Rushmore ('473) discloses an apparatus comprising a first vessel (11); a second vessel (10); an aspirator (20) capable of producing reduced pressure in the second vessel as a first liquid flows through the aspirator to the first vessel; a fluid inlet (16) in the second vessel; a first valve (19) controlling fluid flow in the fluid conduit and a second valve (15) capable of controlling flow through the fluid inlet. As seen in the drawings, control knobs for the valves are disclosed. A cabinet is not disclosed. Parker ('621) teaches placing vessels in a cabinet (10,11,12) for the purpose of temperature control. It would have been obvious to one of ordinary skill in the art to have places the vessels and aspirator of Rushmore ('473) in a cabinet as taught by Parker ('621) to achieve the benefit of temperature control (see Parker, page 1, lines 1-55).
- 7. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rushmore ('473) as applied to claim 1 above, in view of Lins (US 2004/0004903). Rushmore ('903). Lins ('903) teaches a sensor (32) for determine concentration. It

Art Unit: 1723

would have been obvious to one of ordinary skill in the art to have provide the apparatus of Rushmore ('473) with the sensor taught by Lins ('903) to assure the quality of the mixed product (see [0026] of Lins '903).

#### Allowable Subject Matter

8. Claims 7, 8, 10-13, 18 and 20-22 are allowed. Claims 9 and 14 would be allowable if the above objections were addressed.

#### Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Sorkin whose telephone number is 571-272-1148. The examiner can normally be reached on 9:00 -5:30 Mon.-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/749,948

Art Unit: 1723

David L. Sorkin
Primary Examiner
Art Unit 1723

Page 5

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